

PARTS, Romeo Rudol'fovich

Geometry of the armature of a small d.c. motor with printed winding.
Izv. vys. ucheb. zav.; elektromekh. 6 no.5:569-575 '63.
(MIRA 16:9)

1. Nachal'nik laboratorii elektricheskikh mashin i apparatov Nauchno-
issledovatel'skogo elektrotekhnicheskogo instituta upravleniya
mashinostroyeniya soвета narodnogo khozyaystva Estonskoy SSR.
(Electric motors, Direct current)

PARTS, R.

Problem of currents generated in the teeth of the short-circuited rotor of an asynchronous motor. Izv. AN Est. SSR. Ser. fiz.-mat. i tekhn. nauk 12 no.3:339-343 '63. (MIRA 16:11)

1. Academy of Sciences of the Estonian S.S.R., Institute of Energetics.

L 3511-66 EWT(1)/EPA(s)-2 JT

AM5017160

BOOK EXPLOITATION

UR/

Parts, R. R.

Electric motors using printed windings (Elektricheskiye dvigateli s pechatnoy obmotkoy) Tallin, 1964. 69 p. illus., biblio. (At head of title: Nauchno-issledovatel'skiy elektrotekhnicheskiy institut upravleniya mashinostroyeniya Sovnarkhoza ESSR), 1000 copies printed.

TOPIC TAGS: dc motor, printed winding, motor winding armature, printed motor winding, electric motor, electric motor design, slip ring

PURPOSE AND COVERAGE: This booklet is intended for technical personnel concerned with the development and operation of d-c motors using printed armature windings. Problems related to the planning design and operating characteristics of low-power d-c motors using printed windings excited by permanent magnets, are discussed.

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SUB CODE: EC

SUBMITTED: 26Nov64

NO REF SOV: 013

OTHER: 002

Card

3/3

DP

PARTS. R.R.; REYMAL I.R.; TREBARI, V.A.

Simplified determination of short-circuit current in a field of
asynchronous pump. Mag. gldr. no.3:111-113 '65.

(M. 18 '65)

L 1258-66 EPA(s)-2/EWT(1)

ACCESSION NR: AP5024374

UR/0285/65/000/015/0048/0048
621.3.042.5

AUTHOR: Parts, R. R. 44,55

TITLE: An electric motor with a printed-circuit winding. Class 21, No. 173293

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 48

TOPIC TAGS: miniature electric equipment, electric motor, printed circuit

ABSTRACT: This Author's Certificate introduces: 1. An electric motor with a printed-circuit winding on a disc-type non-magnetic rotor between flat magnetic circuits. The poles are located on one of these magnetic circuits. The overall dimensions are reduced by making the magnetic circuits in the form of arcs with their planes perpendicular to the axis of rotation of the machine. 2. A modification of this motor in which the transmission mechanism is eliminated by making the rim of the rotor disc in the form of a gear which drives the actuating mechanism.

ASSOCIATION: none

SUBMITTED: 06Dec62

ENCL: 01

SUB CODE: EE

NO REF SOV: 000

OTHER: 000

Card 1/2

L 1258-66

ACCESSION NR: AP5024374

ENCLOSURE: 01

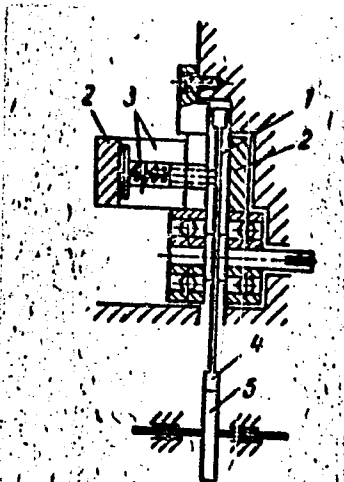


Fig. 1. 1--non-magnetic disc-type rotor; 2--magnetic circuits; 3--poles; 4--disc rim; 5--drive wheel

Cord *ke*
2/2

I. 27831-65 EWT(m)/EPF(c)/EPF(n)-2/ENG(m)/EWT(b) Fr-4/Pu-4 DM

ACCESSION NR: AP5007358

S/0089/64/017/005/0384/0393

AUTHOR: Akopov, Yu. R.; Gverdtsiteli, I. G.; Kaminakiy, V. A.; Partsakhashvili, G. L.

TITLE: Column packing used for isotopic separation 19

24
21
B

SOURCE: Atomnaya energiya, v. 17, no. 5, 1964, 384-393

TOPIC TAGS: isotopic separation

ABSTRACT: Requirements are formulated for the packings used for isotope separation in columns. The properties of various wire packings were studied, and the region of their use was determined. Orig. art. has: 6 tables, 10 graphs, 6 figures.

ASSOCIATION: none

SUBMITTED: 17Oct63

ENCL: 00

SUB CODE: GC

NO REF SOV: 011

OTHER: 014

NA

Card 1/1

PARTSEF, D.P.

Purifying the air of automobile exhaust. Gor. khoz. Mosk.
36 no.3:35-36 Nr '62. (MIRA 15:6)
(Moscow--Air--Purification)

PARTSEVSKIY, A. B.; YUREVICH, G. S.

Electron scales for weighing liquid cast iron and charge materials.
Bul. TSIICM no.5:52 '61. (MIRA 14:10)
(United States—Electronic measurements)

PARTSEVSKIY, A.B., referent; YUREVICH, G.S.

Heating of frozen together materials by infrared rays [from
"Industrial Heating," no.9, 1960]. Biul. TSIICEM no.3:6-
'61. (MIRA 14:14)
(United States—Infrared rays—Industrial applications)

PARTSEVSKIY, V.N.

YERGALIYEV, Abdesh Yergaliyevich; BALOHOLKIN, Anatoliy Nikolayevich;
SHESTAKOV, Viktor Aleksandrovich; ZHAROVTSSEV, N.I., redaktor;
PARTSEVSKIY, V.N., redaktor izdatel'stva; EVENSON, I.M.,
tekhnicheskii redaktor

[New technique and progressive work practice of the mines in the
Zyryanovsk Combine] N,vaia tekhnologiya i peredovoi opyt raboty
na rudnikakh Zyrianovskogo kombinata. Moskva, Gos. nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1957. 72 p.
(Zyryanovsk--Mining Engineering] (MLRA 10:6)

NARINSKIY, Issak Emmanuilovich; GORSHKOV, Viktor Yevgrafovich;
VOZDVIZHENSKIY, B.I., professor, doktor tekhnicheskikh nauk,
retsensent; PARTSEVSKIY, V.N., redaktor izdatel'stva; BERLOV,
A.P., tekhnicheskiy redaktor

[Drilling bore holes with roller bits] Burenie vzryvnykh skvazhin
sharoshechnymi dolotami. Moskva, Gos. nauchno-tekhn.izd-vo lit-ry
po chernoi i tsvetnoi metallurgii, 1957. 116 p. (MLRA 10:6)
(Boring machinery)

PARTSHKOV, M.V., kand.ekonom.nauk; MARGULIS, T.L., kand.istor.nauk

On the road pointed out by the great Lenin. *Elek. i tepl. tsiaga* 4
no. 4:1-8 '60. (MIRA 13:6)
(Electrification)

PERUNOV, K.I.; KOVALENKO, V.A.; YEFANOV, I.I., retsezent; PARTSEVSKIY, V.N.,
tedaktor; BERLOV, A.P., tekhnicheskiy redaktor

[Over-all organization of work in drifting crews; the experience of
the Tashtagol mine] Kompleksnaya organizatsiya truda v gornoprodukt-
cheskikh brigadakh; iz opyta Tashtagol'skogo rudnika. Moskva, Gos.
nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii,
1956. 25 p. (MIRA 10:1)

1. Glavnyy inzhener Glavnogo upravleniya gosudarstvennoy metallurgi-
cheskoy promyshlennosti Tsentra i Vostoka Ministerstva chernoi
metallurgii (for Yefanov)
(Mining engineering)

RAZHEV, Mikhail Mikhaylovich; MIKHAYLOV, Vladimir Vasil'yevich; KOVALENKO, Yefim Pavlovich; SOSEDOV, O.O., redaktor; PARTSEVSKIY, V.N., redaktor izdatel'stva; EVENSON, I.M., tekhnicheskiy redaktor

[Mine tunneling by speed-up methods] Prokhodka gornykh vyrabotok skorostnyimi metodami. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi metallurgii, 1956. 99 p. (MLRA 10:1)
(Mining engineering)

PARTHASARATHY, S.

1210. Parthasarathy, S., and Pancholy, J. L. Ultrasonic absorption measurement in liquids by an improved optical method. *Phys. Rev.* 134, 5, 635-639, 1964.

Ultrasonic absorption in several liquids is measured in the frequency range of 4 to 15 Mc/sec using the Debye-Sears optical diffraction effect. The improved method uses two parallel beams of light, and the resulting optical diffraction patterns are focused on a common photographic plate. *BB* P. E. Borgnis, U.S.A. /

PARTHASARATHY, S.

Wireless Engineer

May 1954

Acoustics and Audio Frequencies

534.321.9 : 534.61

1979

✓ The Dependence of the Power of Ultrasonic Radiation on Frequency. — S. Parthasarathy, J. Srinivasan & S. S. Chari. (Z. Phys., 1953 Oct. 1953, Vol. 186, No. 1, pp. 17-20.) The radiation intensities of the 3rd, 7th and 11th harmonics of a 1.44-Mc quartz crystal immersed in five organic liquids and excited at constant voltage were determined by thermal and direct radiation-pressure measurements. Radiated power decreases continuously as the order of harmonics increases.

③ Elec

10/54

PARTHASARATHY, S.

Wireless Engineer

May 1954

Acoustics and Audio Frequencies

534.321.9 : 534.61

1273

✓ The Dependence of the Power of Ultrasonic Radiation on Frequency. — S. Parthasarathy, D. Srinivasan & S. S. Chari. (Z. Phys., 18th Oct. 1953, Vol. 138, No. 1, pp. 17-20.) The radiation intensities of the 3rd, 7th and 11th harmonics of a 1.44-Mc/1 quartz crystal immersed in five organic liquids and excited at constant voltage were determined by thermal and direct radiation-pressure measurements. Radiated power decreases continuously as the order of harmonics increases.

Handwritten signature and date: 10/54

PARTHENIU, Alex.; DEMETRESCU, Mihai

The reflex of fine variation of impedance of the distal portions of the extremities; method and apparatus for separate and continuous recording of the components of impedance. (The cerebro-peripheral reflex of variation of impedance.) Bul. stiint., sect. med. 6 no.3: 704-724 July-Sept 54.

1. Comunicare prezentata de academician St.M.Milcu in sedinta din 25 ianuarie 1954.

(REFLEX, PSYCHOGALVANIC
cerebro-peripheral reflex of variation of impedance, method
& appar. for recording)

PAPYRUS, INDI

1961 (1961)

on - cotton cultivation

SO: M: "Yuzhnyy Podol'skiy" (1961) (1961) (Moscow 1961)

Astrakhan: "Treasure House", a file in the library of the USSR,
Air Information Division, 1962.

PARTIGUL, S.

USSR

ON: Agricultural Machinery Plant

SOURCE:M: Novyy Pod'yem Narodnogo Khozyaystua SSSR V Polevoyennoy
Pyatiletke, Moscow 1949

Abstracted in USAF "Treasure Island" Report No. 064564, on file in Library of
Congress, Air Information Division.

PARTICULAR, C.

USSR

U: Novy Izhmest "Vozdushnoye Krasnoznamennaya" - Novy Protivokorablennoy Obratnoy
USSR "Vozdushnoye Krasnoznamennaya" - Novy Protivokorablennoy Obratnoy
1942.

SO: Abstracted in "Treasures of the USSR", a file in the USSR, Air
Information Division, Report No. 00000.

PARTICLE, 2.

MSR (64)

On - School attendance in the
number of tractors in the Soviet agriculture

So: S: "Vovny Rodinov, Nikolozov "Treasure of the Soviet Union" (Moscow, 1964)

Abstracted in "Treasure of the Soviet Union" (Moscow, 1964)
Air Information Division, 1964, No. 1, p. 17619

PARTICULAR, S.

USSR (40)

On - reconstruction of Electric Power System - Zupovskaya and others
State Layer Power Stations
Increase in Industrial Production

SO: V. Novik, Pod'vornik, Khodzha, and others, "For the People's Power Plant"
(Moscow 1949)
Abstracted in "Soviet Treasure Island", on file in Library of Congress,
Air Information Division, report No. 1552
1552

PARTICULAR, C.

"1941

(a) "Movement of the population from the city to the countryside" (1941)

SC: Abstracted in "AI "Dynamics of the population", Information Division, 1941.

PARTICHT, S.

USSR

Novyy Podvig Narodnogo Krestianstva (Soviet People's Struggle for Victory, 1942) (co-author) (part of line of USSR National Economic Development Post-war Five-Year Plan.)

SO: Abstracted in USAF "Treasury Island", on file in Library of Congress, Air Information Division. Report No. T.I. - 4420h7

PARTICUL, S.

USSR

On Dnepr Hydroelectric Power Station in Lenin

On Increase of Industrial Production in 1947

On Increase of Production for Civilian needs in 1946, 1947, 1948

On Capital construction in 1942, 1943, 1944, 1947, 1948

SOURCE: M: Novyy Pod'yem Narodnogo Khozyaystva SSSR V Poslevoyennoy Pyatiletke, Moscow, 1949

Abstracted in USAF "Treasure Island", on file in Library of Congress, Air Information Division, Report No. 68801, 68809, 68860, 68862

PARTIGUL, S.

Current problems of socialist production of the means of production
("National product and its structure under socialism" by I.A.A.Kronrod.
Reviewed by S.Partigul). Vop. ekon. no.1:94-98 Ja '61.

(MIRA 13:12)

(Gross national product)
(Kronrod, I.A.A.)

PARTIGUL, S.

USSR

ON: Dashava-Kiev Natural Gas Pipe Line
Khar'kov Tractor Plant
Stalingrad Tractor Plant

Source: "Further Rise in the USSR National Economy According to the Postwar Five-Year Plan", Moscow, 1949 Abstracted in USAF "Treasure Island" Report No. 64312, on file in Library of Congress, Air Information Division 64363-64

PARTIGUL, S.

Supply and demand of goods under socialism. Vop. ekon. no.10:80-89
Vop. ekon. no.10:80-89 0 '59. (MIRA 12:12)
(Supply and demand)

PARTSON, G.

USSR (U.S.)

U: Voprosy Pribl. k Narodn. Khozyaystvu SSSR V P. Voprosy Priklad. Statistiki
Tide of the USSR National Economy during the Second Five-Year Plan. Moscow
1949.

SO: Abstracted in "Soviet Union" in the Library of Congress, Air
Information Division, Report No. 4-103.

Iartigul, S.

Novyy Pod "Yem Narodnogo Khozyaystva SSSR V Poslevoennoy Iyatiletke" The
New Economic Upswing of the U.S.S.R. in the Post-War Five Year Plan Period;
By) S. Gurevich (And) S. Iartigul.

156 p.

Bibliographical Footnotes.

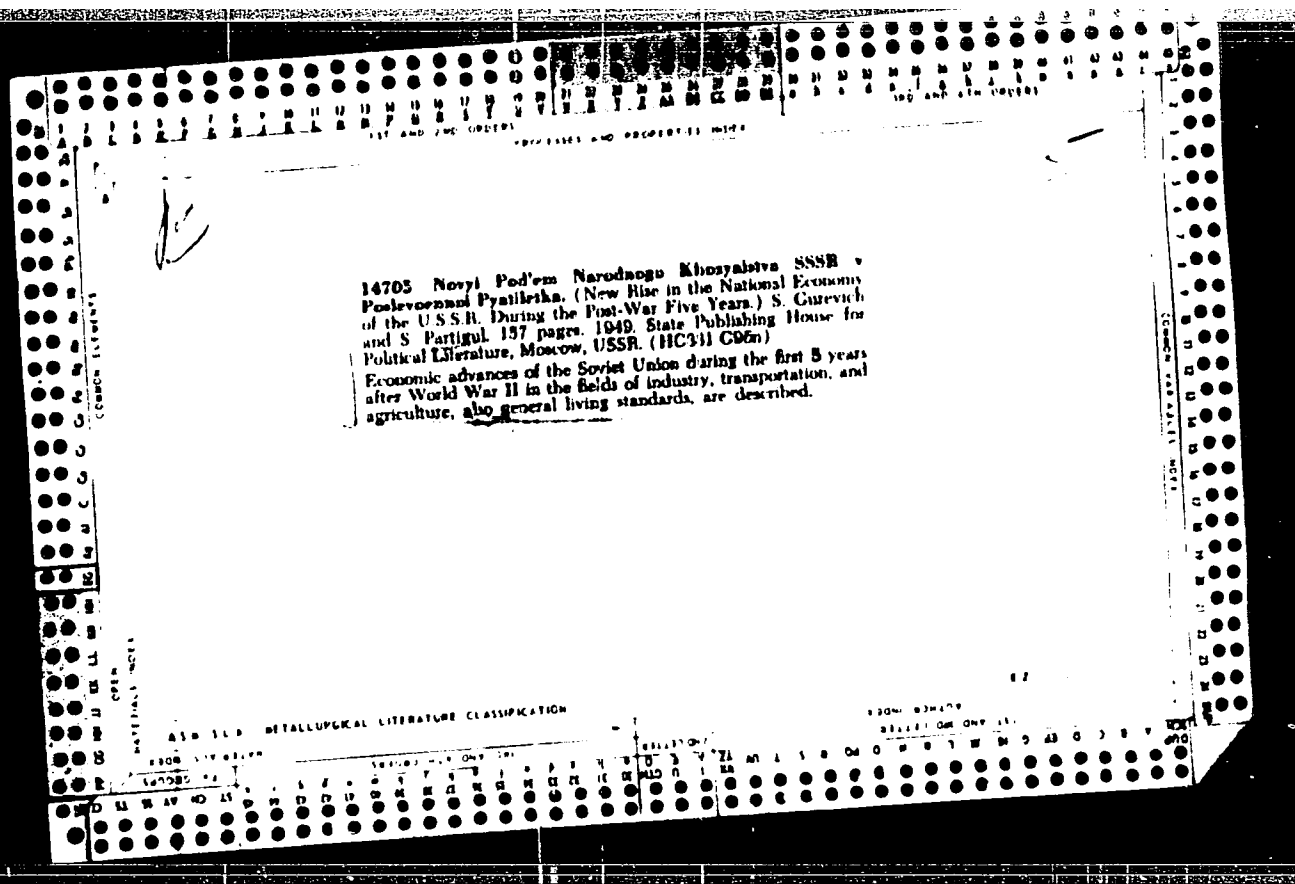
SC: N/5
733.3
.691

PARTIGUL, S.

Commercial Statistics

Urgent problems of commercial statistics. Vest. stat., no. 3, 1951.

9. Monthly List of Russian Accessions, Library of Congress, November 1953. Unclassified.



SECRET, Solomon Islands

... ..
... ..
... ..

PARTIGUL, S.P.; TITEL'BAUM, N.P.; SAZONOV, S.V., redaktor; DEMINA, V.N.,
redaktor; MELENT'YEV, A.M., tekhnichenkiy redaktor

[Soviet commerce; a statistical compendium] Sovetskaya trgovlya;
statisticheskiy sbornik. Moskva, Gos. statisticheskoe izd-vo, 1956.
351 p. (MLRA 9:10)

1. Russia (1923- U.S.S.R.) Tsentral'noye statisticheskoye
upravleniye.
(Russia--Commerce)

Partigul, S.P.

AUTHOR: Vikent'yev, A.

2-5-71

TITLE: S.P. Partigul, "Statistics on the Material and Cultural Standards of the People" (S.P. Partigul, "Statistika material'nogo i kul'-turnogo urovnya naroda")

PERIODICAL: Vestnik Statistiki, 1957, # 5, p 74-76 (USSR)

ABSTRACT: The author criticizes the pretty difficult language of the work and classifies it as popular scientific literature. Despite some deficiencies, the author evaluates the whole work positively. The work acquaints the reader with the most important data, characterizing the material welfare and cultural standards of the working people and enriches the practical work in studying the living standards of the Soviet population.

AVAILABLE: Library of Congress

Card 1/1

PARTIGUR S.

USSR

ON: SUGAR BEET AND SUN FLOWER CULTIVATION

SOURCE: M: NOVYY PODIYEM NARODNOGO KHOZYAYSTVA SSSR V POSLEVOYENNOY PYATILE KE, MOSCOW, L9-9
ABSTRACTED IN USAF "TREASURE ISLAND" REPORT NO. 1949 65653, ON FILE IN LIBRARY OF CONGRESS, AIR INFORMATION DIVISION.

PARTIKEYICH F.V.

KOLOKOLOV, N.V.; KARPYSHEV, M.S.; PARTIKEYICH, F.V.; STOLPNER, I.S.;
SHOVKUN, V.Ye.; GAVRILOV, S.M., inzhener, fetsenzent; PASTER-
NAK, N.A., inzhener, redaktor; MATVEYEVA, Ye.N., tekhnicheskii
redaktor; POPOVA, S.M., tekhnicheskii redaktor.

[Production practice in the heavy machinery industry (Novyy Kramatorsk Stalin Machinery Plant at Elektrostal')] Proizvodstvennyi opyt v tiazhelom mashinostroenii. (Novo-Kramatorskii mashinostroitel'nyi zavod imeni Stalina, g. Elektrostal'.) Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry. Vol. 1. 1952. 138 p. [Microfilm]

(MLRA 7:10)

1. Novo-Kramatorskiy mashinostroitel'nyy zavod imeni Stalina, g. Elektrostal'.

(Machine-shop practice)

KOLEŠAR, J. Technická spolupráca: PARTL, L.; RODOVA, J.

Comments on spirometry from the viewpoint of practice. Bratisl.
lek. listy 44, no. 1:30-36 '64.

1. Fyziatrická klinika Lek. fak. Univ. Komenského a Vyskumny
ustav pre fyziatriu, balneologiu a klimatologiu v Bratislave;
veduci: prof. MUDr. J. Hensel.

*

1ST AND 2ND QUARTERS															PROCESSING AND PROPERTIES INDEX															SPEC AND AT-CHG (S)														
COMMON ELEMENTS															COMMON VARIANTS INDEX																													
BC B-I-2 Results of operation of the first Gromy refinery in 1934. J. A. PANTOV (Gros. Neft., 1934, 4, No. 11-12, 34-40).—Corrosion was partly eliminated by introducing NaOH or NH₃, thus neutralizing the oil high in MgCl₂. The amounts used were not sufficiently high to saponify the naphthenic acids. Treatment with Zn naphthenate eliminates the corrosive effect of S. (In. Ans. (c))																																												
ASB-11A METALLURGICAL LITERATURE CLASSIFICATION																																												
FROM SYNDICATE															FROM BOWERY																													
SOURCES "A"															SOURCES "B" OR "C"															SOURCES "D" OR "E"														

Regenerating spent automobile lubricating oils. V. S. PARTSON - GOSNOWN
Abstract 2, Nov. 4, 1960. Spent motor oil may be added to crude oil or
may be distilled into fractions that are added to the distillates from the crude oil.
A. A. BORTENSK

BC

B-I-2

Influence of air humidity on consumption of reagents in refining kerosene. I. M. Anisov and Y. A. Pavlov (Nef. Khoz., 1981, 24, 65-67).—By drying the air about 60% of acid and 10% of NaOH can be saved. Gz. Ann.

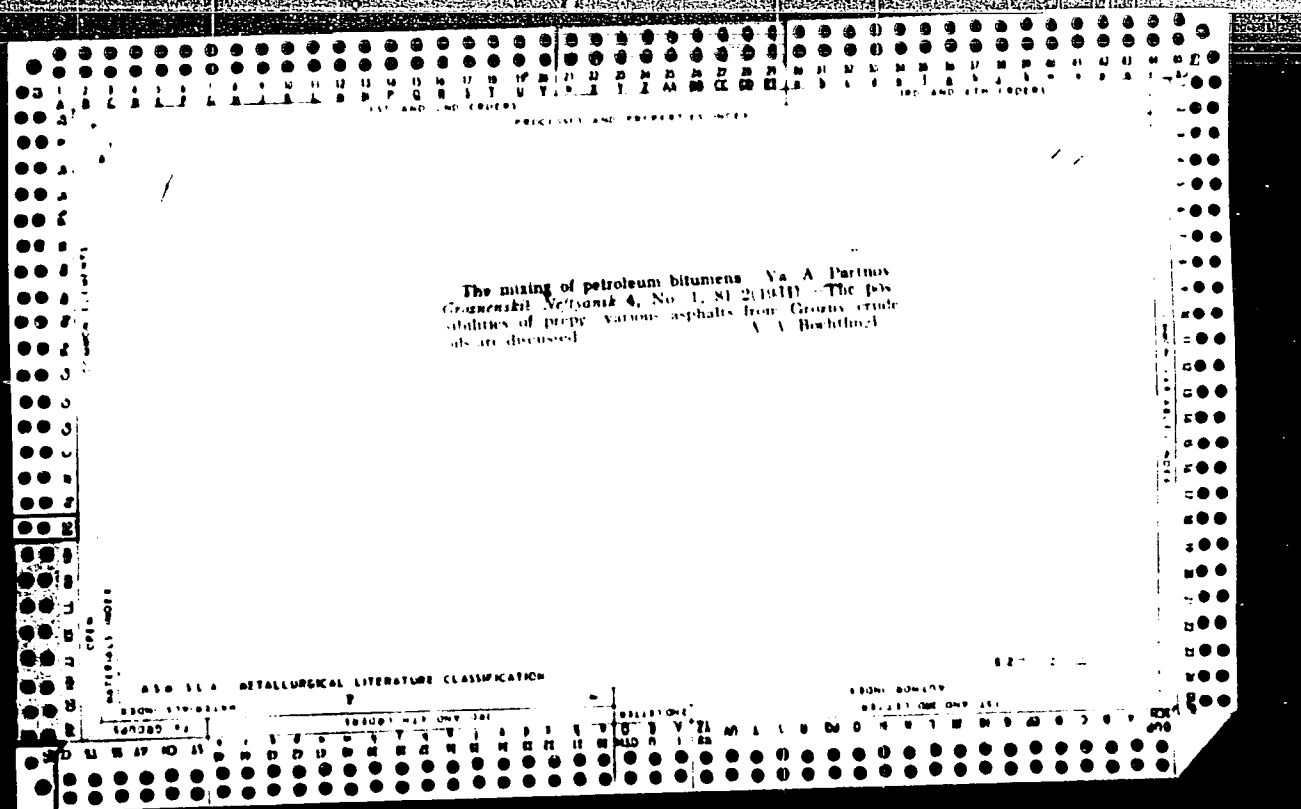
ABD-31A METALLURGICAL LITERATURE CLASSIFICATION

607089 = 4 189882 HIR ONY GRI 031121 ONY 18981 BOWERY 031121 ONY 11

The refinery treatment of Iakinsk crude oil. Ya. A. Partin. - Neftyanoe Khoz. 1933, No. 11, 51-4 - Iakinsk crude oil had initial b. p. 60°, b. below 100° 2.87%, b. 100-160° 17.37%, b. 160-200° 10.77%, b. 200-270° 18.84%, b. 270-300° 8.06% and b. 300-315° 4.80%. μ_v viscosity was 1.14, pour point below -20°, acidity 0.012% (SO_3), exise resins 2% and ash content 0.004%. Difficulties experienced during the distn in a Foster-Wheeler unit are described. The distn. yielded light gasoline 21.0, tractor naphtha 11.3, kerosene distillate 24.2, gas oil 13.1 and bottoms 28.46%. A. A. B.

The production of petroleum ozocerite by the Gromeft
N. A. A. Partonok. *Nefi* 4, No. 2, 20 (1964). The
crude oil deposited in the Gromeft traps rises through
which a mixture of crude oil, gasoline and kerosene is passed
is waped out at 3 points in the line and steam dist.
Ozocerite is obtained in a yield of about 0.05% of the
oil mixt. in 75-80. It is then further refined to comply
with the specifications. A. A. Bagalabov.

AND ILLA METALLURGICAL LITERATURE CLASSIFICATION



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
INFLUENCE OF THE AIR HUMIDITY ON THE CONSUMPTION OF REAGENTS IN REFINING KEROSENE I. M. Anisimov and Ya. A. Partnov. <i>Neftepromyshlennost</i> 26, 35 (1964). The use of humid air in refining kerosene with H_2SO_4 on a lab. scale causes a higher consumption of acid and produces kerosene of inferior color. The air may be dried by passing it through an acid of at least 40% H_2SO_4 or kerosene acid sludge. About 40% of acid and 15% of NaOH can be saved. A. A. Borhtlingk																																																																																																			
ASB-51-8 DETAILING LITERATURE CLASSIFICATION BOOK: 1701214 1701214																																																																																																			

The results of operation of the first Grossay refinery is 1934. Ya. A. Partov. *Grossenishu Nefynishu* 4, No. 12, 35-40(1934). Among the different methods introduced in the refining of petroleum in Grossay were (1) Crude oil was washed by injecting crude oil preheated to 70-80°. (2) Mud settlers were used. (3) Emulsions were broken by injecting hot fuel oil. (4) Emulsions were broken by injecting hot cracked residues into the preheated crude oil. (5) The corrosion was partly eliminated by introducing NaOH or NH_3 , thus neutralizing the oil by introducing MgCl_2 , although the acids used were not sufficiently high to saponify the naphthenic acids. Treatment with Zn naphthenate eliminates the corrosive effect of S. A. A. Buchtinsk

BUKHALOV, Yu.F., dotsent; PARTOLIN, M.P., dotsent; SLABKIY, O.S., dotsent;
KULIKOV, I.M., dotsent

A book about M.O. Maksimovich ("Philosophy of M.O. Maksimovich"
by D. Ostrianin. Reviewed by Yu.F. Bukhalov and others). Nauka
i zhyttia 11 no.1:60-61 Ja '61. (MIRA 14:3)

1. Kafedra filosofii Khar'kovskogo universiteta.
(Maksimovich, Mikhail Aleksandrovich, 1804-1873)
(Ostrianin, D.)

PARTON, V.Z. (Moskva)

Linear approximation of the propagation of cylindrical and
spherical compaction waves in a water-saturated soil. Inzh.zhur.
4 no.1:121-126 '64. (MIRA 17:4)

1. Institut mekhaniki AN SSSR.

10.7600

31253

S/207/61/000/005/013/015

D237/D303

AUTHORS: Morozova, Ye.A., and Parton, V.Z. (Moscow)

TITLE: Fracture arrest by stiffening ribs

PERIODICAL: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki,
no. 5, 1961, 112-114

TEXT: The simplest case of the problem solved by Romualdi and Sanders is given schematically in Fig. 1, where p_0 = applied force,

$2l$ - length of fracture, the ribs are represented by forces P placed symmetrically and assumed known. The solution given by the authors is based on work of G.I. Barenblatt (Ref. 2: PMM, 1959, v. 23 no. 3, 4, 5) and on known results from theory of elasticity. The equation obtained is

$$p^* = \frac{\sqrt{2}}{\pi} P^* e \left[\frac{1-v}{A \sqrt{A-B+2}} + \frac{12(1+v)e^2}{A^3(A+B-2) \sqrt{A-B+2}} + \right. \\ \left. + \frac{2(1+v)(2B-A-4)}{A^3 \sqrt{A-B+2}} + e^2 \frac{(1+v)(B+A)(2B-A-4)}{A^3(A+B-2) \sqrt{A-B+2}} \right] + \frac{\sqrt{2}}{\pi} \frac{1}{\sqrt{l/L}} \quad (5)$$

Card 1/4

Fracture arrest by stiffening ribs

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S/207/61/000/005/013/015
D237/D303

where $B = y_0^2 + l^2 + L^2, \quad A = \sqrt{B^2 - 4L^2 l^2} \quad (4)$

$$P^0 = \frac{P}{K\sqrt{L}}, \quad B = 1 + \epsilon^2 + \left(\frac{l}{L}\right)^2, \quad A = \sqrt{B^2 - 4\left(\frac{l}{L}\right)^2}, \quad \epsilon = \frac{y_0}{L} \quad (6)$$

$$p^0 = p^0\left(\frac{l}{L}\right) = \frac{p_0 \sqrt{L}}{K},$$

ν - Poisson coefficient, K - modulus of cohesion. The relations $p^0 = p^0(l/L)$ were investigated graphically with the following conclusions on the stability of fracture: If (5) corresponding to the given value of ϵ has no max. min. values, then the behavior of the fracture is given by 1 in Fig. 3. If however (5) possesses max. min. values, then for $l_0 < l_1$ and $l_0 > l_3$, development of the fracture proceeds along the line 2 or 3. For $l_1 < l_0 < l_2$, the size of the crack remains the same till the equilibrium value, the crack passes to another equilibrium state, corresponding to the same load, and then remains stable up to p_0 max. After that the crack widens (line 4) and a total breakdown takes place. The case $l_2 < l_0$

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D237/D303

Fracture arrest by stiffening ribs

$\leq l$, is interpreted similarly. For $l/L \rightarrow 0$ and $l/L \rightarrow \infty$, the curves (5) for all ε , approach the Griffith's curve which corresponds to the absence of stiffeners. Substitution of nL for L in (5) gives a solution for the infinite row of ribs at the points $\pm nL$ ($n = 1, 2, 3, \dots$). In conclusion, the authors note that the K - modulus of cohesion permits reduction of the problem of theory of cracked cracks to one in the theory of elasticity. There are 4 figures and 4 references: 2 Soviet-bloc [Abstractor's note: One of them is a translation of an English textbook] and 2 non-Soviet-bloc. The references to the English-language publications read as follows: J.P. Romualdi, and P.H. Sanders, Fracture arrest by riveted stiffeners, Proc. IV-th Midwestern Conf. Solid Mech. Univ. Texas Press, 1959/60, pp. 74-90; A.A. Griffith, Phenomenon of Rupture and Flow in Solids, Phil. Trans, Roy. Soc., 1920, Ser. A., v. 221. X

SUBMITTED: May 16, 1961

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Fracture arrest by stiffening ribs

Fig. 1.

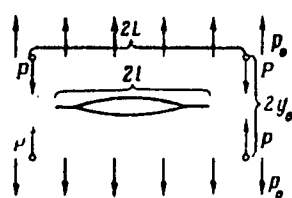
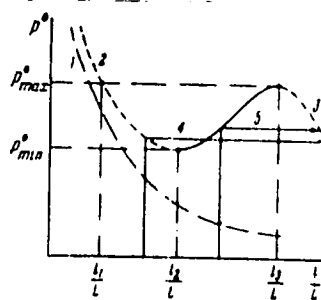


Fig. 3.



PARTOS, GY.

Relationship between the replanting and cultivation of stands and increased productivity; also, remarks by Andras Madas and others. p. 5. (Kozlemenyei, Budapest, Vol. 4, no. 1/2, 1954)

SO: Monthly list of East European Accessions (EAL), LC Vol 4, no. 6, June 1955 Uncl

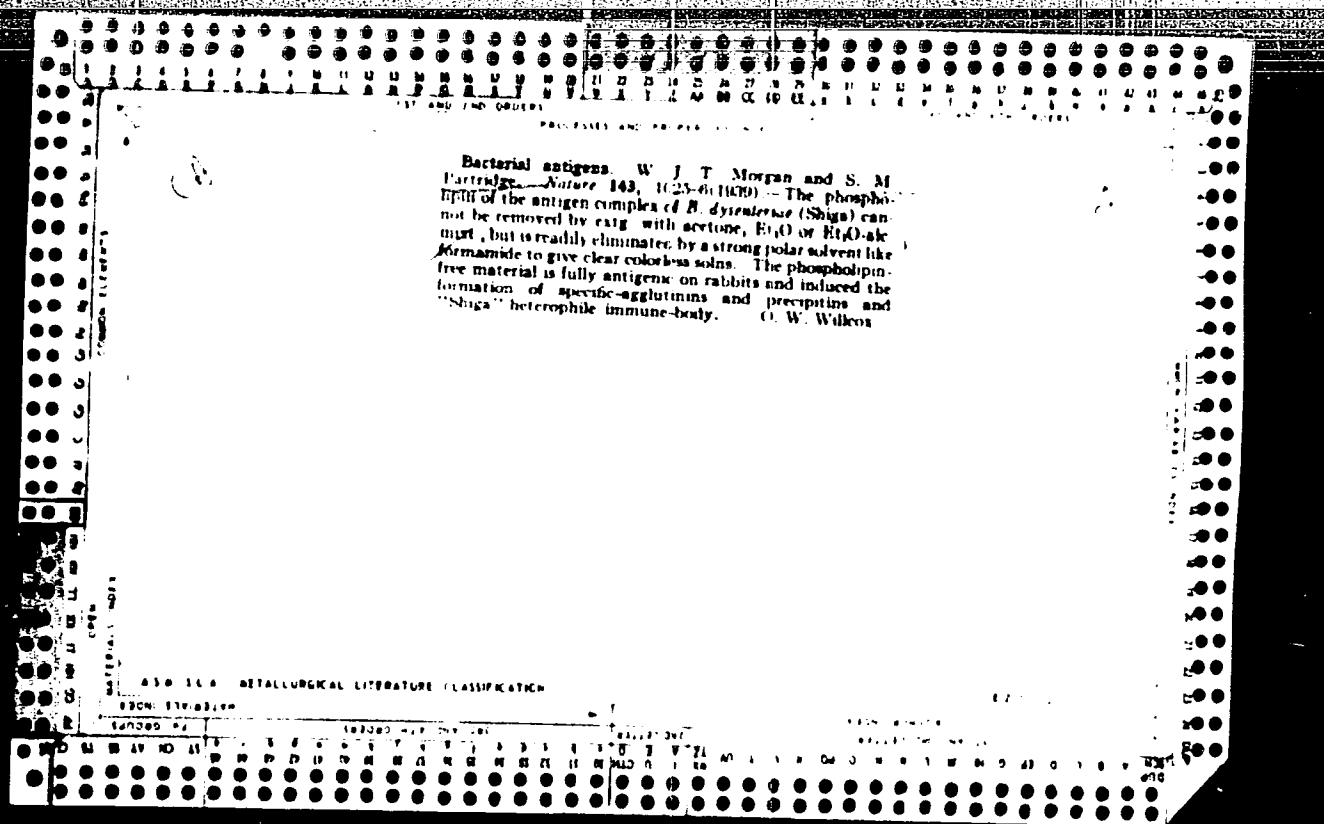
PAHOV, Mikhail Dmitriyevich, kand. ekon. nauk; PARTOSH, L.Z., red.;
RAKITIN, I.T., tekhn. red.

[Extravagance and luxury among poverty] Rastochitel'stvo i
roskosh' sredi nishchety. Moskva, Izd-vo "Znanie," 1962. 31 p.
(Novoe v zhizni, nauke, tekhnike. III Seriya: Ekonomika, no.7)
(MIRA 15:5)

(Labor and laboring classes)

MEDVEDEV, V.I., inzh.; PARTOSH, T.Z., inzh.

Measurement of the high-frequency parameters of power transformers.
Trudy VNIIE no.7:295-305 '58. (MIRA 16:12)



F

2492. PRODUCTION OF HIGH QUALITY AVIATION FUELS. Anglo-Iranian Oil Co. Ltd and Partridge, W.A. (B.P. 622,999/1949). Claim 1:- A process for producing a high quality aviation fuel comprising the fractionation of an alkylate produced by condensing isobutane or isopentane with one or more of the lower olefines except ethylene in the presence of an alkylation catalyst, such as concentrated sulphuric acid or hydrofluoric acid, for the recovery therefrom of one or more of the fractions boiling within the ranges 41°C.-69°C., 91°C.-106°C. and 106°C.-120°C., and blending the fraction or fractions with at least one diluent consisting of a hydrocarbon fuel boiling in the aviation fuel range whereby the resulting blend contains not more than 30% ~~assessable~~ of diluent and a minimum of approximately 10% by volume and a maximum of approximately 40% by volume of components boiling below 40°C.

(A11,119).

Dipole moments caused by interatomic vibrations A. Parts. *Aremia Tead 2*, 184-95 (1977) (in Estonian). The dipole moment (μ) caused by asymmetric and by deflecting vibrations in the CO_2 mol. was calculated. Taken on the basis of either classical or wave mech. assumptions gave identical results. The μ caused by interatomic vibrations is affected by temp., which should be considered when interpreting expt. measurements.

Dynamic and unidirectional equilibria. A. L. Davis (*Lehman's Analysis*, No. 11, 1-4 (1955) (in Russian)). According to experiments the state of thermodynamic equilibrium is not always dynamic. In some cases the equilibrium is unidirectional, which contradicts the general validity of the principle of microscopic reversibility (Bukharov and Wang, 1957). This fact becomes especially clear on the assumption that in a chain reaction passing through intermediates states the quantum-mechanical probabilities of transition into the intermediate states are not equal with regard to the initial substance and the resulting substance. 1. L. L. Lavrenko

Dielectric absorption of solutions of amino acids in water and water-ethanol mixtures. Adol. Fark. *Pub. Tech. Univ. Estonia Tallinn, Ser. A No. 6, 3-10 (1939)* (in English); cf. C. A. 33, 3221¹.—The dielec. absorption of *D*-α-aminovaleric acid, *dl*-methionine, *dl*-phenylalanine, hydroxyproline, glycylglycine, *D*-glycylglycine and glycyl-*dl*-glycine in water solns. and that of glycine, *D*-α-aminobutyric acid, γ-aminobutyric acid and α-aminocaproic acid in water-ethanol (20.22% by vol.) was measured by the resonance method at frequencies of 16.4, 32.8 and 65.6 megacycles. The setup was the same as described before (cf. C. A. 33, 3221¹). The low-frequency cond. of amino acid solns. is lowered by recrystn. and is an indicator of their purity. The molar cond. is also lowered by recrystn. The calcd. molar vols. indicate the existence of 2 groups of amino acids, those formed by α-acids, with molar vols. between 38 and 69% of the actual vols. (cf. C. A. 28, 3043²), and those in which the amino- and carboxy-groups are sepd. by 4 or 5 C. atoms, with molar vols. of 82-103%. The difference between the calcd. and actual molar vols. is due to electrostriction (1) caused by zwitterions. The 1 for α-acids is about 13 cc., for the 2nd group (e. g., α-amino acids) 17 cc. In the alc.-water series the concn. of the amino acid soln. was selected so as to give for the dielec. const. the value of water alone. The alc.-water mixts. had the max. viscosity known for these mixts. The molar vols. calcd. from the dielec. absorption in this series are slightly smaller than those found for solns. in water alone. The increase in viscosity of the solvent (2.41 times) does not appreciably affect the molar vol. of the solute. The capil. results are discussed on the basis of Onsager's theory (cf. C. A. 30, 7002³). F. LAMAR

17									
Stability of lachryal preparations. H. Paris, <i>Pharmazie</i> (Basel) 20, 2(1940).—When kept under proper conditions the preps. do not lose appreciable amts. of sulfate S. T. L. Lanes									
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PROCESSING AND PRODUCTION INFO																			
17 17 Recent advances in perfume and etheral oil research. H. Parts. <i>Pharmazie</i> (Helsinki) 10, 40-2(1959)(in Estonian).--A review																			
COMMON ELEMENT DATE MATERIALS INFO ASB-31.4 METALLURGICAL LITERATURE CLASSIFICATION ISSUE 5/1962										COMMON ELEMENT DATE MATERIALS INFO ISSUE 5/1962 ISSUE 5/1962									

S/023/61/000/004/001/001
D249/D304

AUTHOR: Parta, R.

TITLE: Reactance due to the main magnetic field in a linear cylindrical pump

PERIODICAL: Izvestiya. Akademiya nauk Estonskoy SSR. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 4, 1961, 313 - 318

TEXT: The author states that the present analysis was carried out in order to extend the limited amount of information available on the theory of cylindrical pumps. To determine the components of the magnetic field, a system consisting of an arbitrary number of concentric cylinders having different permeabilities is first considered. The magnetic field in the n-th cylinder, associated with the v-th space harmonic, is described by

$$\frac{1}{R} \frac{\partial}{\partial R} (R H_{Rn}) + \frac{\mu_{zn}}{\mu_{Rn}} \frac{\partial H_{zn}}{\partial z} = 0 \quad (4)$$

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Reactance due to the main ...

which uses the cylindrical coordinates R, z . This follows from the condition that $\text{div } \vec{B}_{vn} = 0$, and the assumptions of symmetrical field and constant radial and axial components of μ . By using the concept of the scalar potential and making corresponding substitutions in Eq. (4) and integrating, the two components of the magnetic field that are of interest, the axial field density component H_{zvn}

$$H_{zvn} = \frac{\pi}{\tau_1} [C_{vn1} I_0(\kappa_{vn} R) + C_{vn2} K_0(\kappa_{vn} R)] \sin v_{\tau_1} z. \quad (12)$$

and the radial flux density component B_{Rvn} ,

$$B_{Rvn} = -\mu_{Rn} \kappa_{vn} [C_{vn1} I_1(\kappa_{vn} R) - C_{vn2} K_1(\kappa_{vn} R)] \cos v_{\tau_1} z. \quad (13)$$

$I_0(\kappa_{vn} R), K_0(\kappa_{vn} R)$ = zero order modified Bessel function of the first and second kind; $I'_0 = I_1$ and $K'_0 = -K_1$; C_{vn1}, C_{vn2} = integrating constants; τ_1 = pole pitch; $\kappa = \kappa(\pi/\tau_1) \sqrt{\mu_{zn}/\mu_{Rn}}$. Referring

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Reactance due to the main ...

to the particular case of the cylindrical pump, the fundamental frequency ($\nu = 1$) field intensity component H_{z11} for the external stator ($n = 1$) carrying the polyphase winding, is derived from the general solutions (12) and (13) for the n -th cylinder, by determining the integration constants $C_{\nu n1}$ and $C_{\nu n2}$ from the boundary conditions for the two-cylinder system

$$H_{z11} = -\frac{\pi}{r_1} \frac{B_{z1}}{r_1 x_{11}} \frac{[I_0(x_{11}R) - A_1 K_0(x_{11}R)]}{[I_1(x_{11}R) + A_1 K_1(x_{11}R)]} \sin \frac{\pi}{r_1} z. \quad (23)$$

$B\delta_1$ = amplitude of the fundamental frequency density at the stator surface; R_1 = internal radius of the stator. The stator winding reactance X_m can now be determined. By definition $X_m = E_1/I_0$, where E_1 is the emf induced in the winding and, for a given machine, depends only on $B\delta_1$. Thus the problem of finding X_m is reduced to determining $B\delta_1$ from Eq. (23). This is done by solving the integral

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$$F_{p1} = \int_{-\frac{\pi}{2}}^{\frac{\pi}{2}} (H_{21})_{R-n} dz \quad (24)$$

which gives the m.m.f. F_{p1} between two adjacent poles, and relation F_{p1} to F_1 , the amplitude^{p1} of the fundamental frequency m.m.f. per pole pair produced by the polyphase winding, by using the coefficient $K_{F1} = F_1/F_{p1}$. The expressions obtained finally for the main and differential reactances are given by

$$X_m = \frac{4}{\pi} \frac{mfw_1^2 k_{001}^2 l_1}{K_{F1} p} \left[\frac{l_0(x_{11}R_1) - A_{11}K_0(x_{11}R_1)}{l_1(x_{11}R_1) + A_{11}K_1(x_{11}R_1)} \right] \frac{\pi b}{t_1^2} \quad (30)$$

and

$$X_g = X_m \sum_{r=1}^{\infty} \frac{l_0(x_{r1}R_1) - A_{r1}K_0(x_{r1}R_1)}{l_1(x_{r1}R_1) + A_{r1}K_1(x_{r1}R_1)} \cdot \frac{k_{001}^2 \sin r \frac{\pi b}{t_1^2}}{r^2 k_{001}^2 \sin \frac{\pi b}{t_1^2}} \quad (32)$$

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Reactance due to the main

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D449 D104

in which the symbols employed to denote the a.c. machine parameters are those commonly used. The author states further that the present theoretical treatment can be usefully applied in the design of machine tools for machining internal surfaces of tubes. There are figure and 1 Soviet-bloc reference.

ASSOCIATION: Institut energetiki Akademii nauk Estonskoy SSR (Institute of Power Engineering Academy of Sciences Estonian SSR)

SUBMITTED: February 1, 1961



Card 100

PARTS, R.

[Electric motors with printed windings] Elektricheskie
dvigateli s pechatnoi obmotkoi. Tallinn, Gos. kom-t
Soveta Ministrov Estonskoi SSR po koordinatsii nauchno-
issl. rabot, 1962. 64 p. (MIRA 18:1)

PARTS, R. R., Cand Tech Sci -- (diss) "Theoretical and experimental research into asynchronous machines with various current distributions in the secondary circuit." Leningrad, 1960. 13 pp; (Ministry of Higher and Secondary Specialist Education RSFSR, Leningrad Polytechnic Institute M. I. Kalinin); 150 copies; price not given; (KL, 26-60, 137)

PARTS, Ya. Yu.

"S wine of the 'large white bread' and methods of further improving them in the Estonian SSR (in order to produce a better quality of bread)," *Sov. Agr. Sci.*, Estonian Agricultural Acad, Tartu, 1954. (KL, No 2, Jan 55)

Survey of Scientific and Technical Dissertations Defended at U.S.S.R. Higher Educational Institutions (13)
SO: Sum. No. 598, 2 Jul 55

VOYNILOVICH, Ye.A., glavnyy metodist; PARTS, Ya.Yu.; BARSHAK, O.G., otvetstvennyy redaktor

[The "Estonia S.S.R." pavilion; a guidebook] Pavil'on "Estonskaya SSR"; putevocitel'. Moskva, Gos. izd-vo selkhoz. lit-ry, 1956. 25 p.
(MLRA 9:12)

1. Moscow. Vsesoyuznaya sel'skokhozyaystvennaya vystavka, 1954-
2. Direktor pavil'ona (for Parts)
(Estonia--Agriculture) (Moscow--Agricultural exhibitions)

PARTSAHOVA, N. V.

"Treatment by Sunlight, Fresh Air, and Sea Bathing."

Fel'dsher i Akusher., No. 4, 1949. Medical Nurse,

Sochi, -c1949-.

KIRSANOV, I.P.; PARTSEVSKIY, A.B.

Abstracts. Ogneupory 28 no.6:281-283 '63. (MIRA 16:6)

(Converters--Design and construction)
(Refractory materials)

KIRSANOV, I.P.; PARTSEVSKIY, A.B.

Abstract. Ogneupory 28 no.5:238-239 '63. (MIRA 16:6)

(Austria—Converters)
(Refractory materials)

KIRSANOV, I.P.; ORLOVSKIY, Ya.A.; GUSOVSKIY, A.A.; KIRSANOV, I.P.;
PARTSEVSKIY, A.B.

From science and technology in foreign countries; abstracts.
Ogneupory 28 no.7:333-335 '63. (MIRA 16:9)

BRIK, S.D.; PARTSEVSKIY, A.B.; GOL'DEN, Ya.A., glav. red.

[Ferrous metallurgy research institutes in capitalist countries]
Nauchno-issledovatel'skie uchrezhdeniia chernoi metallurgii ka-
pitalisticheskikh stran. Moskva, TSentr. in-t informatsii cher-
noi metallurgii, 1962. 55 p. (MIRA 16:3)
(Metallurgical research) (Iron--Metallurgy)
(Steel--Metallurgy)

KIRSANOV, I.P., referent; PARTSEVSKIY, A.B., referent

~~Refractories in the~~ "Ajax" 300-ton tilting open-
hearth furnace (from "Refractories in Steelmaking," 1962).
Ogneupory 28 no.4:189 '63. (MIRA 16:6)

(Open-hearth furnaces--Design and construction)

KIRSANOV, I.P., referent; PARTSEVSKIY, A.B., referent

Refractories in the arches of "Ajax" open-hearth furnaces.
Ogneupory 28 no.4:190-192 '63. (MIRA 16:6)

(Open-hearth furnaces—Design and construction)

MATVEYEV, Mikhail Alekseyevich; TROITSKIY, A.V., redaktor; PARTSEVSKIY, A.V.,
redaktor; EVENSON, I.M., tekhnicheskiiy redaktor

[Water supply and ventilation systems in ore-dressing mills] Vodo-
snabzhenie i vozdukhoduvnye ustanovki obogatitel'nykh fabrik. Moskva,
Gos. naučno-tekhn. izd-vo lit-ry po cherno i tsvetnoi metallurgii,
1954. 390 p. (MLRA 8:3)

(Ore dressing) (Metallurgical plants)

RIVKIN, Isaak Davydovich; ZAPOL'SKIY, Vyacheslav Petrovich; BOGDANOV, Petr Andreyevich; SHOSTAK, A.G., redaktor; PARTSEVSKIY, B.N., redaktor izdatel'stva; PETROVA, N.S., tekhnicheskiy redaktor

[Sound measuring method of observing manifestations of mine pressure in the workings of the Krivoy Rog Basin] Zvukometricheskii metod nabludeniia proiavlenii gornogo davleniia na shakhtakh Krivorozhskogo basseina. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi metallurgii. 1956. 188 p. (MIRA 9:8)

(Krivoy Rog--Subsidence (Earth movements))
(Mining engineering)

IOPIN, Stanislav Leonidovich; KULIKOV, Aleksandr Vasil'yevich; KULIKOV, Vladimir Vasil'yevich; POLISHCHUK, Afanasiy Dmitriyevich; PROKOP'YEV, Ye.P., professor, doktor tekhnicheskikh nauk, retsenzent; REVAZOV, A.A., gornyy inzhener, retsenzent; RYCHIK, P.P., kandidat tekhnicheskikh nauk, redaktor; PARTSEVSKIY, I.N., redaktor izdatel'stva; MIKHAYLOVA, V.V., tekhnicheskiiy redaktor

[Forced roof caving] Prinuditel'noe etashnoe obrushenie. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po cherno i tsvetnoi metallurgii, 1957. 34 p. (MLRA 10:7)

(Mining engineering)

BUTKEVICH, T.V., redaktor; OGLOBLIN, D.N., redaktor; PARTSEVSKIY, V.N.,
redaktor; MIKHAYLOVA, V.V., tekhnicheskij redaktor.

[Manual for mine surveyors] Spravochnik marksheidera. Moskva,
Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii.
Pt. 2, 1955. 927 p. [Microfilm] (MLRA 9:1)
(Mine surveying)

SERGEYEV, A.A., redaktor; POKROVSKIY, L.A., redaktor; SHUSTOVA, V.M., redaktor; PARTSEVSKIY, V.N., redaktor; MIKHAYLOVA, V.V., tekhnicheskiiy redaktor

[Unified safety rules for mining metalliferous, non-metallic, and placer deposits by the underground method] *Minnye pravila bezopasnosti pri razrabotke rudnykh, nerudnykh i rossypnykh mestorozhdenii podzemnym sposobom. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955. 319 p. (MLRA 8:6)*

1. Russia (1923- U.S.S.R.) Sovet Ministrov. Komitet po nadzoru za bezopasnym vedeniyem rabot v promyshlennosti i gornomu nadzoru. (Mining engineering--Safety measures)

OLOFINSKIY, N.P.; TRUSHLEVICH, V.I., doktor, professor, retsenzent; ZHMBROVSKIY, S.P., doktor, professor; retsenzent; MAKARENKO, E.P., redaktor; PAR-TSEVSKIY, V.H., redaktor; MIKHAYLOVA, V.V., tekhnicheskii redaktor

[Electrical methods of ore concentration] Elektricheskie metody obogoshchenia. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po cherno i tsvetnoi metallurgii, 1953. 288 p. (MIRA 7:9)
(Ore dressing)

TARASOV, L.Ya; PARTSEVSKIY, V.B., redaktor; VAYNSHTEYN, Ye.B., tekhnicheskiiy redaktor.

[Constructor of mine supports] Krepil'shchik. Moskva, Gos.nauchn.-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1954.
304 p. (MLRA 7:11)
(Mine timbering)

PARTSEVSKIY, V. N.

SOLOV'YANOV, Leonid Nikolayevich; KAPLUN, Ya.G., professor *tekhnicheskikh nauk*, retsenzent; TROFIMOV, P.F., retsenzent; redaktor; *PARTSEVSKIY*, V.N., redaktor; BEKKER, O.G., *tekhnicheskii* redaktor

[Servicing bits and rods for pneumatic hammer drills; textbook for schools and foremen's courses] Zapravka burov i shtang dlia pnevmaticheskikh buril'nykh molotkov; uchebnoe posobie dlia shkol i kursov masterov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po cherno i tsvetnoi metallurgii, 1955. 128 p. (MLRA 8:10)
(Boring machinery)

PARTSEVSKIY, V.N.

I'ENITOV, Vladimir Rafailovich; AGOSHKOV, M.I., retsenzent; KASSYURA,
K.G., gornyy inzhener, retsenzent; SINDOHOVSKIY, N.S., redaktor
PARTSEVSKIY, V.N., redaktor; EVENSON, I.M., tekhnicheskiy redaktor.

[Methods of working thick ore deposits.] Sistemy razrabotki
moshchnykh rudnykh mestorozhdenii. Moskva, Gos.nauchno-tekhn.
izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1955. 311 p.
(Mining engineering) (MLA 8:10)

GORODETSKIY, Pavel Ivanovich, professor, doktor tekhnicheskikh nauk;
AGOSHKOV, M.I., retsenzent; IMENITOV, V.R., redaktor; PARTSEVSKIY,
V.N., redaktor; MIKHAYLOVA, V.V., tekhnicheskiy redaktor.

[Principles of planning mining enterprises] Osnovy proektirovaniia
gornorudnykh predpriatii. Izd. 2-oe, perer. i ispr. Moskva, Gos.
nauchno-tekhn.izd-vo lit-ry po chernoi itsvetnoi metallurgii,
1955. 415 p. [Microfilm] (MLRA 9:1)

1. Chlen-korrespondent AN SSSR (for Agoshkov)
(Mining engineering)

KOBYLIN, Aleksandr Ivanovich, kandidat tekhnicheskikh nauk, dotsent;
LISHUTIN, B.G., redaktor; RASHKOVSKIY, Ya.Z., redaktor; PARTSEVSKIY,
V.N., redaktor; OSTASHENKO-KUDRYAVTSEV, B.P., zasluzhenniy davatel'
nauki, professor, doktor fiziko-matematicheskikh nauk, retsenzent;
KAPLUNOV, B.V., inzhener, retsenzent; PCHEL'NIKOV, inzhener, retsen-
zent; EVENSON, I.M., tekhnicheskii redaktor

[Group equating in mining triangulation] Gruppovoe uravniwanie
rudnichnoi triangulatsii. Moskva, Gos.nauchno-tekhn. izd-vo
lit-ry po chernoi i tsvetnoi metallurgii, 1955. 128 p.
(Triangulation) (MIRA 9:2)